

Subject card

Subject name and code	Neurobiology of Addictions, PG_00203446						
Field of study	Medical Biology						
Date of commencement of studies	October 2026		Academic year of realisation of subject			2028/2029	
Education level	Bachelor's studies		Subject group			Obligatory subject group in the field of study Optional subject group Subject group related to scientific research in the field of study	
Mode of study	full-time studies		Mode of delivery			at the university	
Year of study	3		Language of instruction			Polish	
Semester of study	6		ECTS credits			3.0	
Learning profile	academic		Assessment form			credit	
Conducting unit	Laboratory of Neurobiology -> Department of Animal and Human Physiology -> Faculty of Biology -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Wojciech Glac				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	30.0	0.0	0.0	0.0	30
	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	30		5.0		40.0	75
Subject objectives	understanding the mechanisms leading to pharmacological and behavioral addiction and the basis of individual differences in susceptibility to addiction; learning the properties, mechanisms of action and effects of the most popular addictive substances; ability to recognize addiction and symptoms of taking addictive substances						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
	[BIOLMEDL3_K03] is ready to form opinions about individuals, social groups, and the organization of individual and team work; independently undertakes and initiates simple research activities		* is able to formulate opinions about individual people and social groups in the context of susceptibility to addiction and the effects of addiction, and also assess the psychophysical condition of an addicted person in various phases of addiction while maintaining ethical principles (B_K03)			[SK1] oral statement/conversation/discussion [SK5] implementation of a problem task	
	[BIOLMEDL3_U06] is able to identify problems corresponding to the needs of an individual and a social group and to undertake diagnostic, preventive and educational activities appropriate to the profession of medical biologist		can prepare a well-documented issue on the neurobiological basis of addiction and addiction prevention (BM_U07)			[SU3] text preparation/written work [SU5] implementation of a problem task	
	[BIOLMEDL3_U04] synthesises data from different sources and draws appropriate conclusions from them		synthesizes data from various sources in order to determine the degree of harmfulness, addictive potential of substances and the individual's susceptibility to developing addiction (B_U05)			[SU3] text preparation/written work [SU5] implementation of a problem task	

Subject contents	• the definitions of addiction; • psychological and physical addictions; • behavioral and pharmacological addictions; • neurobiological mechanism of addiction; • theories on the development of addiction; • mechanisms of action and effects of the main pharmacological groups of addictive drugs - stimulants, depressants and psychedelics - including: amphetamine, cocaine, caffeine, nicotine, alcohol, barbiturates, benzodiazepines, opioids, LSD, psilocybin, MDMA, ketamine, phencyclidine, cannabinoids and others; • individual differences in susceptibility to addiction and the effects of taking addictive substances; • treatment of addiction		
Prerequisites and co-requisites	basic knowledge about the structure and functioning of the central nervous system		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	discussion	51.0%	10.0%
	problem tasks	51.0%	40.0%
	case study	51.0%	20.0%
	quizzes	51.0%	30.0%
Recommended reading	Basic literature	• Bijak i Lasoń (red.), Neuropsychofarmakologia: dziś i jutro, Instytut Farmakologii Klinicznej PAN, Wydawnictwo Państwowe, Kraków, 2000 • Szukalski, Narkotyki kompendium wiedzy o środkach uzależniających, Instytut Psychiatrii i Neurologii, Warszawa, 2005 • Longstaff, Neurobiologia, PWN, Warszawa, 2002	
	Supplementary literature	articles in specialist scientific journals (provided by teacher)	
	eResources addresses		
Example issues/ example questions/ tasks being completed	• test - indicate substances that are physically addictive (indicate all correct answers) • problem work - create a synthetic theory of addiction based on various theories • case study - based on the described story, indicate and justify what substances the described has taken, and why fatal overdose occurred • discussion - topic: therapeutic potential of psychedelics		
Work placement	Not applicable		

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